ReSound

Be aware of information marked with the warning symbol:

⚠ **WARNING** points out a situation that could lead to serious injuries;

⚠ **CAUTION** indicates a situation that could lead to minor and moderate injuries.

**ReSound North America**
8001 Bloomington Freeway
Bloomington, MN 55420
phone: 1-800-882-3636

**ReSound Canada**
303 Supertest Road
Toronto, Ontario M3J 2M4
phone: 1-888-737-6863

**costcosupport@gnresound.com**

400048011 Rev.A 2012.06

*Quick reference:*

# YOUR WIRELESS RECEIVER-IN-THE-EAR (RIE) HEARING INSTRUMENTS

***Model information:***

Your hearing instrument model designation is

_____.

***Battery information:***

Your hearing instrument uses battery size

312

_____.

***Your program environments:***

| LISTENING PROGRAM/ RESOUND ACCESSORY | DESCRIPTION—WHEN TO USE |
|---|---|
| Program 1 | |
| Program 2 | |
| Program 3 | |
| Program 4 | |
| Accessory 1 | |
| Accessory 2 | |
| Accessory 3 | |

*This document contains information regarding hearing instrument type MRIE, with the following model number:*

*FO862-DRW*

62R wFO

*These two pages provide information about wireless connectivity.*

FCC ID: X26MRIE

## STATEMENT

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from the one in which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications can void the user's authority to operate the equipment.

## INTENDED USE

Generic air conduction hearing instruments are wearable sound amplifying devices intended to compensate for impaired hearing. The fundamental operating principle of hearing instruments is to receive, amplify, and transfer sound to the ear drum of a hearing impaired person.

## LIST OF COUNTRIES

Products without wireless functionality are intended for worldwide sales.

Products with wireless functionality are intended for sale in countries within the European Economic Area as well as Switzerland.

Specification of restrictions: You are not allowed to operate the equipment within 20 km of the centre of Ny Ålesund, Norway.

The products are in compliance with the following regulatory requirements:

- In EU: the device conforms to the Essential Requirements according to Annex I of Council Directive 93/42/EEC for medical devices (MDD) and essential requirements and other relevant provisions of Directive 1999/5/EC (R&TTE). The declaration of conformity may be consulted at www.resound.com.
- In US: FCC CFR 47 Part 15, subpart C, section 15.249
- Other identified applicable international regulatory requirements in countries outside EU and US. Please refer to local country requirements for these areas.
- Products are categorized as Class 2 receiver according to EN 300 440.

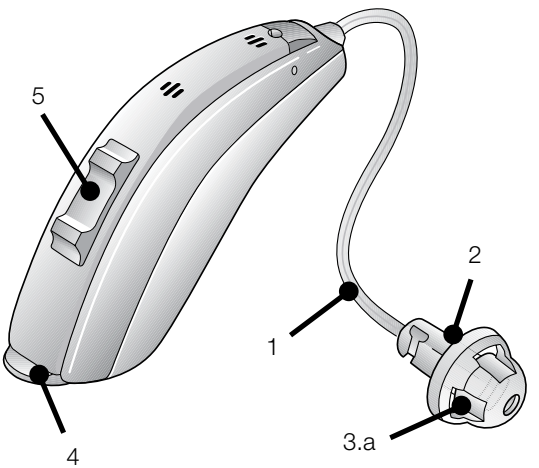
IC: 6941C-MRIE

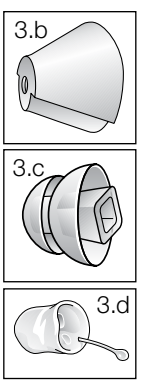
This Class B digital apparatus complies with Canadian ICES-003.

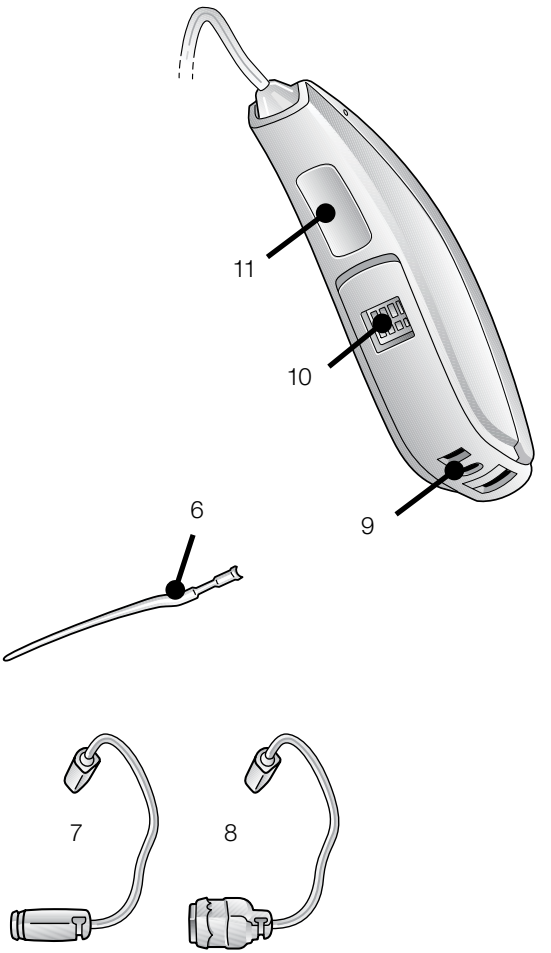
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## WIRELESS RECEIVER-IN-THE-EAR (RIE) HEARING INSTRUMENTS

1. Receiver tube
2. Receiver
3. Receiver domes/earmold
   a. Open dome
   b. Tulip-Dome
   c. Power dome
   d. Custom earmold
4. Battery compartment
5. Multifunction switch
6. Sports lock *(optional)*
7. NP receiver tube
8. HP receiver tube
9. Left/right indicator
10. Direct Audio Input (DAI)
11. Model and serial number



## MULTIFUNCTION SWITCH

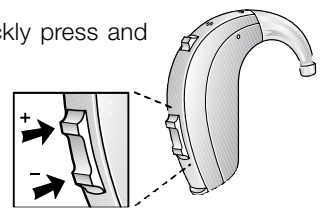
The multifunction switch enables you to adjust volume, switch between listening programs, and activate streaming with optional ReSound wireless accessories. This can be done through a combination of long or short button pushes in the up or down direction.

| ACTION | DEFAULT FUNCTION | CUSTOMIZED FUNCTION* |
|---|---|---|
| Short push— ↑ Up | Increase (+) volume | |
| Short push— ↓ Down | Decrease (-) volume | |
| Long push— ↑ Up | Change listening program | |
| Long push— ↓ Down | Activate streaming (via ReSound accessories) | |

** Defined by your hearing healthcare professional*

***Volume control***

- To increase the volume, quickly press and release the top edge of the multifunction switch.
- To decrease the volume, quickly press and release the bottom edge of the multifunction switch.




When volume is increased or decreased, a beep tone will be heard for each incremental change. When the upper or lower limit of the volume range is reached, a beep tone that is lower in pitch will be heard.

***Program selection***

The number of listening programs available in your hearing instrument is determined by your hearing healthcare professional based on your individual needs. To change listening programs, press and hold the top edge of the multifunction switch for 3 seconds. With each press you will hear one or more beeps. The number of beeps corresponds to the program you have selected. For example, you will hear one beep for Program 1 and two beeps for Program 2. Opening and closing the battery door will always reset your hearing instrument to Program 1.

***Activate wireless streaming***

To activate wireless streaming, press and hold the bottom edge of the multifunction switch for 3 seconds. You will hear a melody of beeps once you have successfully connected to the ReSound wireless accessory. Repeat the process to access any additional ReSound wireless accessories you may have. The number of wireless accessories required to accommodate your needs and preferences should be determined by you and your hearing healthcare professional.

Please see page 1 for a list of listening programs and ReSound wireless accessories that have been set up for use with your hearing instrument(s).

NOTE: The default function of the multifunction switch can be customized by your hearing healthcare professional. Consult your hearing healthcare professional to discuss any customized functionality.

NOTE: The functionality of the multifunction switch can also be accomplished by means of an optional ReSound remote control. Consult your Remote Control User Guide for additional information.

## LOW BATTERY INDICATOR

Your hearing healthcare professional can set your hearing instrument to signal you when the battery is reaching the end of its life. The hearing instrument will reduce amplification and emit a melody if battery power drops below a critical level. This signal will recur every five minutes until the hearing instrument automatically switches off. It is recommended that you keep spare batteries on hand.

Optional wireless accessories from ReSound require more battery power from the hearing instruments than when they are working on their own. As a result, battery life is highly dependent on the amount of wireless accessory usage. When the battery in the hearing instrument has depleted to a level at which use of the TV streamer, phone clip and clip-on

microphone cannot be supported, the hearing instrument will play two sets of descending tones. After this, your hearing instrument and remote control will continue to work as usual, but you will not be able to use your TV streamer, phone clip or clip-on microphone. At some point the battery level will no longer support the remote control but the hearing instruments will continue to work as usual. Once a new battery is inserted, full operation of the accessories will resume.

## FLIGHT MODE *(for instruments paired with accessories)*

When boarding a flight, or entering an area where RF transmitters are prohibited, wireless functionality must be deactivated, as it is not allowed to radiate radio signals.

It is possible to disable wireless operation by opening and closing the battery compartment of the hearing instrument while at the same time pressing the top edge of the multifunction switch.

Once disabled, wireless operation can be re-enabled by opening and closing the battery compartment normally, (i.e., without pressing the multifunction switch at the same time).

## AUTOPHONE

The autophone function allows your hearing instrument to automatically switch to the telephone program when a telephone receiver is raised to the ear. When the telephone receiver is moved away from the ear, the hearing instrument automatically returns to the previous listening program. The autophone function allows you to use the telephone in a normal manner. You will hear a beep whenever the autophone feature automatically switches the hearing instrument into or out of your telephone program. Experiment with various telephone placements to find the best position for reliable autophone activation and optimal hearing on the telephone.

***Placement of autophone magnets.***

Place an autophone magnet on your telephone receiver to allow operation of the autophone function. In order to place the autophone magnet properly:

1. Clean the telephone receiver thoroughly.
2. Hold the telephone vertically, in a position similar to when making a telephone call.
3. Place the magnets just below the telephone receiver. Make sure not to cover the microphone openings. If necessary, move the magnet to another position to improve ease of use and comfort while speaking.

4. If you are not satisfied with the strength of the autophone, you can reposition the autophone magnet or add additional autophone magnets.

***Autophone precautions***

- Keep magnets out of reach of pets, children and mentally challenged persons. Seek medical attention if a magnet is swallowed.
- The magnet used to supplement the magnetic field of a telephone receiver may affect some medical devices or electronic systems. The manufacturer of any magnetically sensitive devices (e.g., pacemakers) should advise you regarding appropriate safety precautions when using your hearing instrument and magnet in close proximity to the medical device or electronic system in question.
- High distortion during dialing or telephone use may indicate that the telephone receiver is being adversely affected by the magnet. For better performance, relocate the magnet to another place on the telephone receiver.

## CELL PHONES

Your hearing instrument is designed to comply with the most stringent Standards of International Electromagnetic Compatibility. However, not all cell phones are hearing instrument compatible. The varying degree of disturbance

can be due to the nature of your particular cell phone or your wireless telephone service provider.

If you are not satisfied with the results while using your cell phone, your hearing healthcare professional will be able to give you advice on available accessories to enhance listening capabilities.

## LISTENING TO THE RADIO OR TV

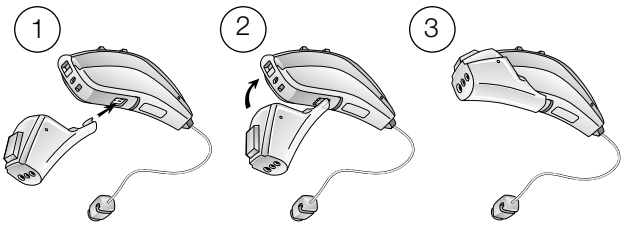
When listening to the TV or the radio, start out by listening to news commentators since they usually speak clearly, then try other programs.

If you find it difficult to listen to TV or radio, your hearing healthcare professional will be able to give you advice on available accessories to enhance your listening capabilities for TV and radio.

## CONNECTING/DISCONNECTING AUDIO BOOTS

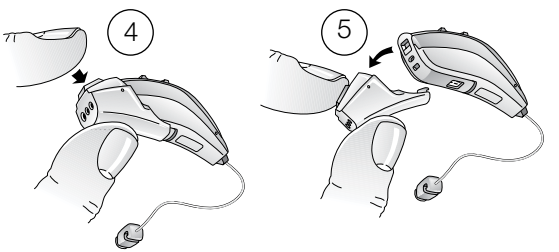
***Connecting audio boots***

1. Align the tip of the audio boot with the groove just above the battery compartment and below the model number. The boot should be held at a 45° angle.
2. Once in place, move the boot in the direction of the battery compartment.
3. Gently click the audio boot onto the hearing instrument.




***Disconnecting audio boots***

4. Press and hold the button on the front side of the audio boot.
5. Gently remove the audio boot from the hearing instrument.



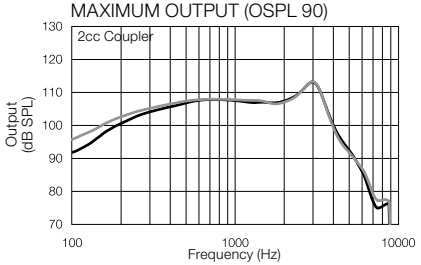
### *Technical data for wireless RIE—NP receiver*

*Model:* ***FO862***

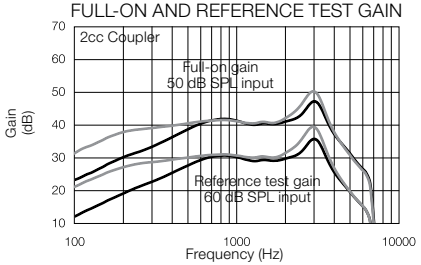
| | | Open | Closed | |
|---|---|---|---|---|
| Reference test gain (60 dB SPL input) | HFA | 30 | 32 | dB |
| Full-on gain (50 dB SPL Input) | Max | 47 | 50 | dB |
| | HFA | 41 | 42 | dB |
| Maximum output (90 dB SPL input) | Max | 114 | 114 | dB SPL |
| | HFA | 108 | 108 | dB SPL |
| Total harmonic distortion | 500 Hz | 0.8 | 0.8 | % |
| | 800 Hz | 0.8 | 0.9 | % |
| | 1600 Hz | 0.7 | 0.8 | % |
| Telecoil sensitivity (SPLIV @ 31.6 mA/m) | | 90 | 91 | dB SPL |
| Equivalent input noise (w/o noise reduction) | | 24 | 25 | dB SPL |
| Frequency range (DIN 45605) | | 100–6790 | 100–6720 | Hz |
| Attack and release (ANSI RTG -7 dB) | Attack | 12 | 12 | ms |
| | Release | 70 | 70 | ms |
| Current drain | Battery size 312 | 1.2 | 1.2 | mA |

NP receiver

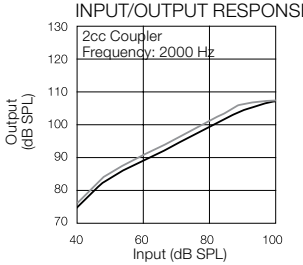
MAXIMUM OUTPUT (OSPL 90)




FULL-ON AND REFERENCE TEST GAIN




INPUT/OUTPUT RESPONSE




Data in accordance with ANSI S3.22–2003; Supply Voltage 1.3 V, 2cc coupler

Open configuration

Closed configuration

**Tested in accordance with ANSI specifications. Actual battery life will vary.*

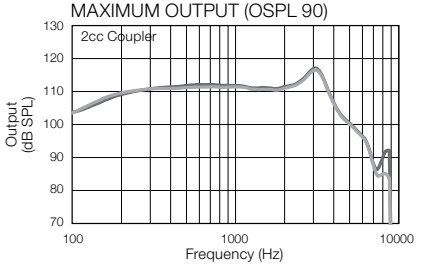
### *Technical data for wireless RIE—HP receiver*

*Model:* ***FO862***

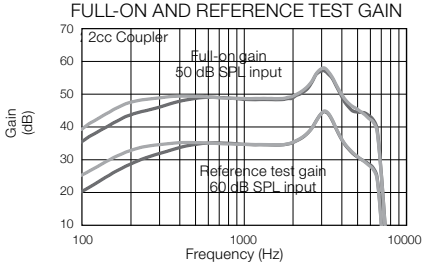
| | | Open | Closed | |
|---|---|---|---|---|
| Reference test gain (60 dB SPL input) | HFA | 35 | 35 | dB |
| Full-on gain (50 dB SPL Input) | Max | 57 | 58 | dB |
| | HFA | 49 | 49 | dB |
| Maximum output (90 dB SPL input) | Max | 117 | 117 | dB SPL |
| | HFA | 112 | 112 | dB SPL |
| Total harmonic distortion | 500 Hz | 0.8 | 0.7 | % |
| | 800 Hz | 1.1 | 1.0 | % |
| | 1600 Hz | 0.9 | 0.8 | % |
| Telecoil sensitivity (SPLIV @ 31.6 mA/m) | | 96 | 96 | dB SPL |
| Equivalent input noise (w/o noise reduction) | | 26 | 26 | dB SPL |
| Frequency range (DIN 45605) | | 100–7150 | 100–7140 | Hz |
| Attack and release (ANSI RTG -7 dB) | Attack | 12 | 12 | ms |
| | Release | 70 | 70 | ms |
| Current drain | Battery size 312 | 1.2 | 1.2 | mA |

HP receiver

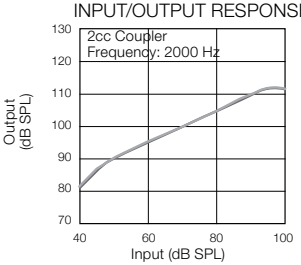
MAXIMUM OUTPUT (OSPL 90)




FULL-ON AND REFERENCE TEST GAIN




INPUT/OUTPUT RESPONSE




Data in accordance with ANSI S3.22–2003; Supply Voltage 1.3 V, 2cc coupler

Open configuration

Closed configuration

**Tested in accordance with ANSI specifications. Actual battery life will vary.*

## NOTES